

Amendments to the Claims

The listing of claims will replace the previous version, and the listing of claims:

Listing of claims

1-7. (canceled)

8. (Currently amended) A gas chromatograph with a fluid control assembly for controlling flow and pressure of gas, said fluid control assembly comprising:

    a flow path,

    a control valve situated in the flow path and being capable of adjusting an opening degree thereof,

    a flow resistance provided in the flow path at a downstream side of the control valve,

    a sample introducing part provided in the flow path at a downstream side of the flow resistance,

    differential pressure detecting means attached to the flow path for detecting a differential pressure between two ends of the flow resistance,

    pressure detecting means attached to the flow path between the flow resistance and the control valve for detecting a pressure thereat, and

    control means attached to the control valve, the differential pressure detecting means and the pressure detecting means for carrying out a predetermined calculation based on signals from the differential pressure detecting means and the pressure detecting means for controlling the opening degree of the control valve so that flow amount ~~or~~ and pressure in the flow path can be controlled at a predetermined value by the differential pressure detecting means and the pressure detecting means.

9. (Previously presented) A gas chromatograph according to claim 8, wherein said control means carries out a predetermined calculation based on a differential between a signal at the differential pressure detecting means and a signal at the pressure detecting means.

10. (New) A gas chromatograph according to claim 8, wherein said one of the flow amount and the pressure is selectively calculated by the control means.